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# WINTER DRIVING

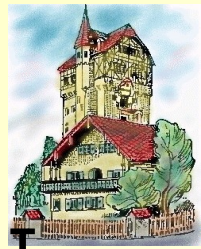
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# WINTER

# DRIVING



In  
GERMANY...



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## WINTER DRIVING

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# EFFECTS OF WEATHER ON EQUIPMENT

## COLD WEATHER ENGINE STARTING AND WARM-UP PROCEDURES.

**1. DO NOT RACE ENGINE!**

**2. CLEAN OFF VEHICLE COMPLETELY!**

- CLEAN ALL LIGHTS**

- SCRAPE ALL WINDOWS AND MIRRORS**

- SWEEP ALL THE SNOW OFF THE**

**VEHICLE**

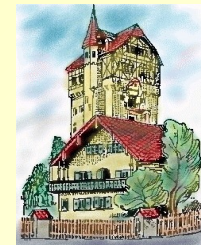
**\* Good all around visibility is important!!!! And remember, IAW German law, not to leave your vehicle to warm for more than 3 minutes!**



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# WINTER DRIVING

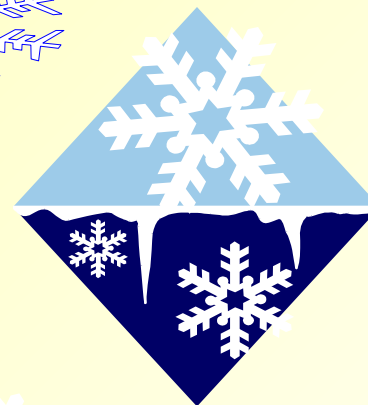
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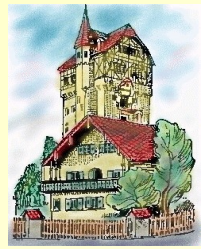
# WINTER



- Adjust to Conditions
- Hills and Grades
- Following Distance
- Steering
- Skids



**Winter Driving**



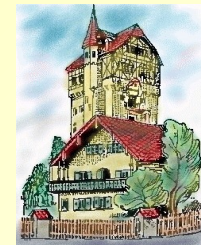
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## WINTER DRIVING

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# DEFENSIVE DRIVING TECHNIQUES

- **Drive at reduced speeds so you can stop quicker.**
- **Give turn signals sooner than usual. This gives other drivers more time to react.**
- **Pump your brakes to warn of your intention to stop.**
- **Maintain at least triple the normal distance from the vehicle ahead.**



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## WINTER DRIVING

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# OPERATING ON SNOW AND ICE

**Drive in second or third gear rather than first or low. Engage the clutch gradually (or in d2, high, with automatic transmission), and accelerate no more than necessary to keep from stalling.**

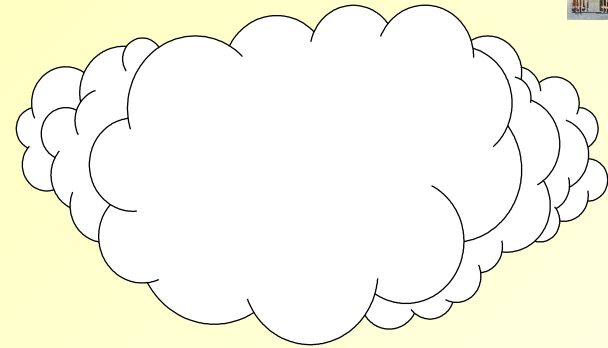
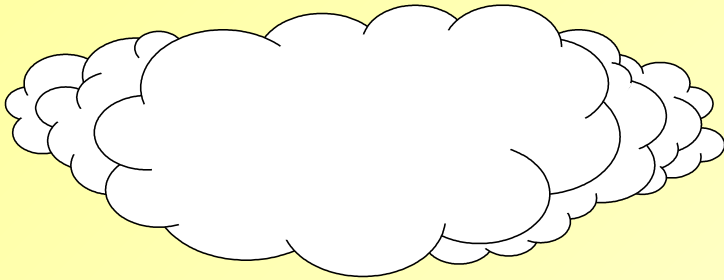
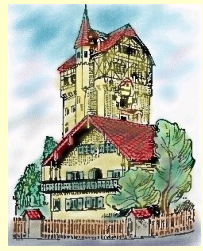
**\* AVOID QUICK ACCELERATION ON SLICK ROADS. IT WILL CAUSE YOU TO SKID.**



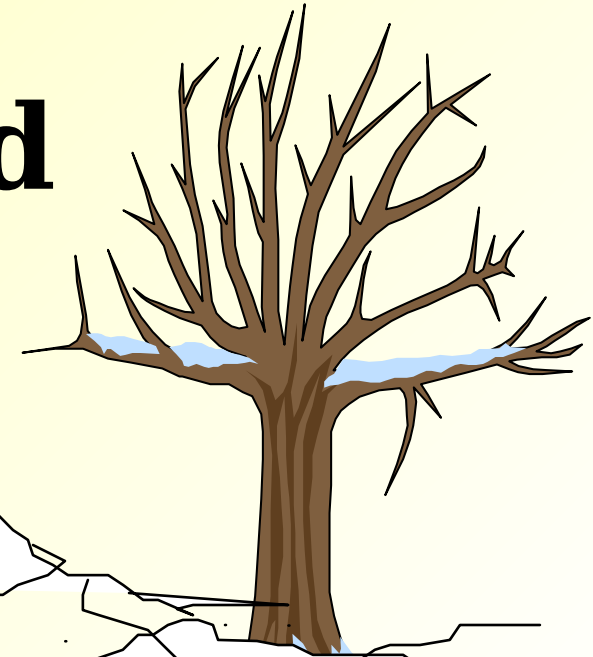
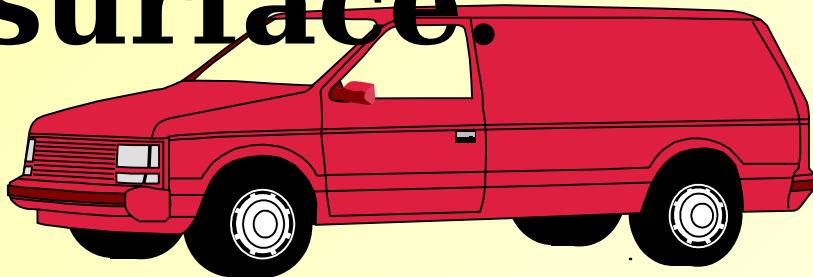
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# WINTER DRIVING

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**Fresh snow may  
conceal an icy road  
surface.**



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**Winter Driving**

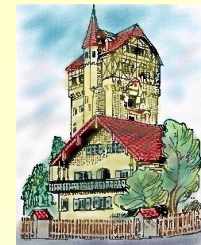
Driver Training Phase I



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## WINTER DRIVING

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# BLACK ICE DANGEROUS BECAUSE YOU CAN'T SEE IT!

**COMMON AREAS YOU FIND IT =**

1. Bridges/Overpasses/Underpasses
2. Shaded areas



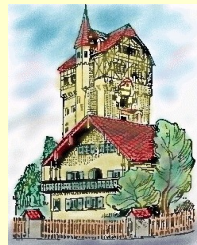
**Winter Driving**



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## WINTER DRIVING

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# BLACK ICE REACTION

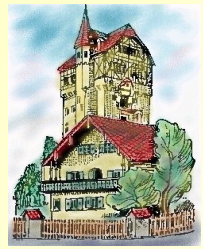
- **DO NOT PANIC!**
- **MAKE NO SUDDEN CHANGES IN SPEED OR DIRECTION!**
- **EASE OFF ACCELERATOR!**
- **STEER IN DIRECTION THAT THE REAR OF THE VEHICLE IS SKIDDING!**



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# WINTER DRIVING

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**When driving in fog, use low-beam headlights,**

**STOP, GET OFF THE ROADWAY, AND  
WAIT!!**

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**Winter Driving**

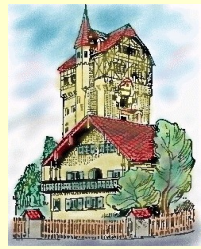
Driver Training Phase I



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## WINTER DRIVING

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# HILLS AND GRADES

**When approaching a hill or upgrade / downgrade remember to do the following:**

- 1. Select the proper gear before approaching, usually a lower gear.**
- 2. Use the same gear going down that you used going up. This will allow the engine to act as a brake, so you will not have to use your brake excessively.**

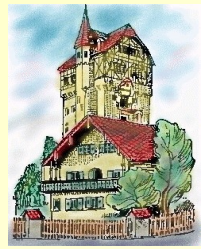
**\* On steep or very slippery grades, use at least one gear lower, and go slower \***



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# WINTER DRIVING

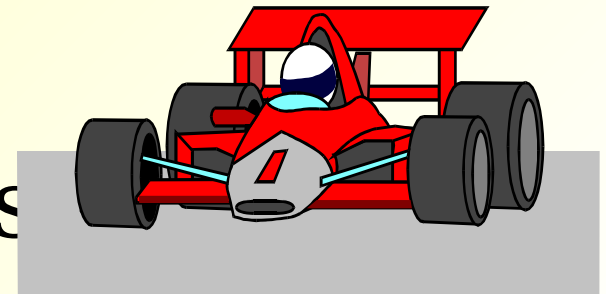
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## SKIDS

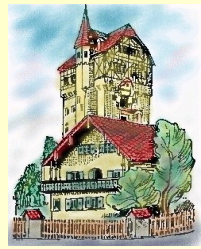
Result from unexpected forces:

1. Black Ice
2. Driving too fast for conditions
3. Sudden steering corrections or braking
4. Sudden accelerations





# WINTER DRIVING



## SKIDS (CONTINUED)

If your vehicle begins to skid, take the following actions:

**1. Front end skids** - Release the brake and let the front wheels roll freely to regain traction and steering control.

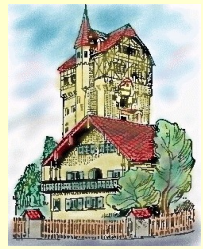
**2. Rear end skids** - Take foot off of accelerator and turn wheels in the direction that the rear of the vehicle is skidding, and pump brakes lightly.



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## WINTER DRIVING

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# Dangerous Roads

**Every community has specific areas where accidents are likely to occur.**

**Your local safety office can alert you to danger areas.**

~~**Check with the local MPs/Polizei for weather conditions**~~

Driver Training Phase I

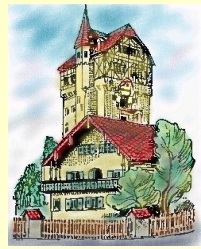
Winter Driving



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## WINTER DRIVING

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# CARBON MONOXIDE

**!!! DANGER !!!**

## CARBON MONOXIDE

### POISONING

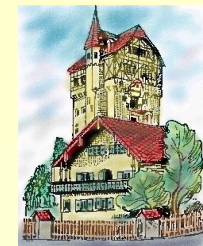
Each year 1,500 people are killed in the U.S. by carbon monoxide, approximately 900 of whom die in the home. More than 10,000 are exposed to levels so dangerous that medical attention is required.



**Winter Driving**



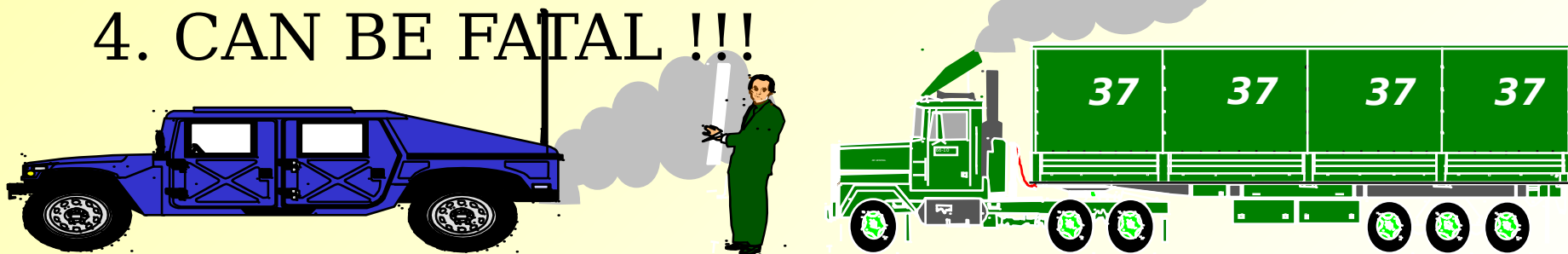
## WINTER DRIVING



# CARBON MONOXIDE

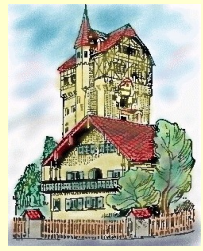
## Attributes/Effects

1. Odorless & Colorless
2. Nausea & Dizziness
3. Causes Drowsiness
4. CAN BE FATAL !!!



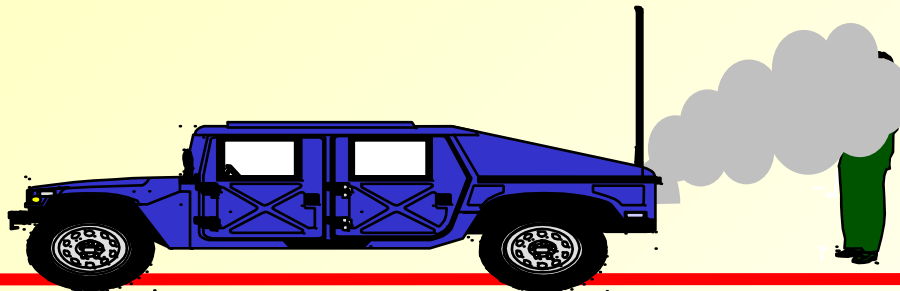


## WINTER DRIVING



# CARBON MONOXIDE Prevention

1. Never run engine in an enclosed area
2. Check exhaust (muffler) daily for leaks



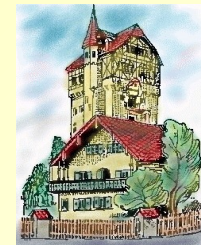
**Winter Driving**



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# WINTER DRIVING

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## SUMMARY

- **Cold weather greatly affects the operating performance of your equipment.**
- **Winter weather presents unique hazards, i.e.. snow, slush, ice, black ice, etc...**
- **Drivers must always exercise extreme caution for safe winter driving.**
- **INCREASE INTERVALS!**
- **SLOW DOWN!**